

**United States Patent** [19][11] **4,217,238****Sartori et al.**[45] **Aug. 12, 1980**

[54] **PROCESS FOR REMOVING ACID GASES  
WITH HINDERED AMINES AND AMINO  
ACIDS**

[75] **Inventors:** Guido Sartori, Linden; David W.  
Savage, Summit, both of N.J.

[73] **Assignee:** Exxon Research & Engineering Co.,  
Florham Park, N.J.

[21] **Appl. No.:** 835,810

[22] **Filed:** Sep. 22, 1977

**Related U.S. Application Data**

[62] Division of Ser. No. 750,520, Dec. 14, 1976, Pat. No.  
4,094,957.

[51] **Int. Cl.<sup>2</sup>** ..... **C09K 3/00**

[52] **U.S. Cl.** ..... **252/192; 423/220;**  
423/223; 260/584 R; 252/189; 252/190;  
423/226; 423/228; 423/232

[58] **Field of Search** ..... 252/192, 189, 190;  
423/220, 223, 226-228, 232, 233, 236, 243;  
260/584 R

[56]

**References Cited****U.S. PATENT DOCUMENTS**

2,139,122	12/1938	Hass et al.	260/584 R
2,139,124	12/1938	Hass et al.	260/584 R
3,848,057	11/1974	Leder et al.	423/228
3,856,921	12/1974	Shrier et al.	423/229 X
4,096,085	6/1978	Holoman et al.	252/189

*Primary Examiner*—Benjamin R. Padgett

*Assistant Examiner*—J. L. Barr

*Attorney, Agent, or Firm*—Albert P. Halluin

[57]

**ABSTRACT**

Acidic components are removed from gaseous mixtures by contacting the gaseous mixture with an aqueous solution comprising (1) a basic salt and (2) an activator for said basic salt comprising at least one sterically hindered amine and an aminoacid which is a cosolvent for the sterically hindered amines. The aminoacid serves to prevent phase separation of the aqueous solution at high temperatures and low fractional conversions during the contacting.

**11 Claims, No Drawings**

No active tr.

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Title: **JP53081490A2:**  
**RITSUTAISHOGAIAMINOYOBIAMINOSANDESANSEIGASUOJOKYO**  
**REMOVING ACIDIC GASES WITH STERIC HINDRANCE AMINE AND**

Country: **JP** Japan  
 Kind: **A2** (See also: [JP63007813B4](#) )

Inventor: **GUIDO SARUTORI;**  
**DEIBITSUDO DABURIYUU SABEJI;**

Assignee: **ESSO RES \* ENG CO**  
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Application Number: **JP1977000149457**

IPC Code: Advanced: **B01D 53/14; B01D 53/40; B01D 53/48; B01D 53/52; B01D 53/62;**  
**B01D 53/77;**  
 Core: more...  
 IPC-7: **B01D 53/16;**

ECLA Code: **None**

Priority Number: 1976-12-14 **US1976000750520**

INPADOC Legal Status: **None** Buy Now: [Family Legal Status Report](#)

Family:




Buy PDF	Publication	Pub. Date	Filed	Title
<input checked="" type="checkbox"/>	<a href="#">US4217238</a>	1980-08-12	1977-09-22	Process for removing acid gases with hinde
<input checked="" type="checkbox"/>	<a href="#">US4094957</a>	1978-06-13	1976-12-14	Process for removing acid gases with hinde
<input checked="" type="checkbox"/>	<a href="#">NL7712558A</a>	1978-06-16	1977-11-15	WERKWIJZE VOOR HET VERWIJDEREN GASMENGSELS.
<input checked="" type="checkbox"/>	<a href="#">MY0004883A</a>	1983-12-31	1983-12-31	PROCESS FOR REMOVING ACID GASES AMINO ACIDS
<input checked="" type="checkbox"/>	<a href="#">JP63007813B4</a>	1988-02-18	1977-12-14	RITSUTAISHOGAIAMINOYOBIAMINOSAI
<input checked="" type="checkbox"/>	<b>JP53081490A2</b>	1978-07-18	1977-12-14	RITSUTAISHOGAIAMINOYOBIAMINOSAI
<input checked="" type="checkbox"/>	<a href="#">IT1088901A</a>	1985-06-10	1977-11-17	PROCESSO PER ELIMINARE GAS ACIDI
<input checked="" type="checkbox"/>	<a href="#">GB1587874A</a>	1981-04-08	1977-09-23	PROCESS FOR REMOVING ACID GASES AMINO ACIDS
<input checked="" type="checkbox"/>	<a href="#">FR2374071B1</a>	1984-10-26	1977-11-16	
<input checked="" type="checkbox"/>	<a href="#">FR2374071A1</a>	1978-07-13	1977-11-16	PROCEDE ET COMPOSITION POUR ENL D'UN MELANGE GAZEUX, A L'AIDE D'AM

				L'EMPECHEMENT STERIQUE ET D'AMIN
<input checked="" type="checkbox"/>	<a href="#">DE2755569C2</a>	1990-05-03	1977-12-09	Verfahren zur Entfernung von CO <sub>2</sub> aus eine Absorptionsloesung
<input checked="" type="checkbox"/>	<a href="#">DE2755569A1</a>	1978-06-15	1977-12-09	Verfahren zur Entfernung saurer Kompone
<input checked="" type="checkbox"/>	<a href="#">CA1098506A1</a>	1981-03-31	1977-09-23	PROCESS FOR REMOVING ACID GASES ACIDES
<input checked="" type="checkbox"/>	<a href="#">BR7708271A</a>	1978-08-15	1977-12-13	PROCESSO PARA REMOVER COMPONENTOS GASOSA, SOLUCAO DE LAVAGEM E CO
<input checked="" type="checkbox"/>	<a href="#">AU3096777A1</a>	1979-11-15	1977-11-25	REMOVING ACID GASES
<input checked="" type="checkbox"/>	<a href="#">AU0515976B2</a>	1981-05-14	1977-11-25	REMOVING ACID GASES
16 family members shown above				

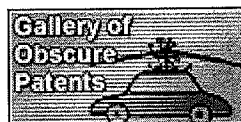
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References:

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Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6423282</a>	2002-07-23	Araki; Ryosuke	Nippon Nyukazai Co., Ltd.	Method for the regenerative containing methyldiethanol

Other Abstract  
Info:

None



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